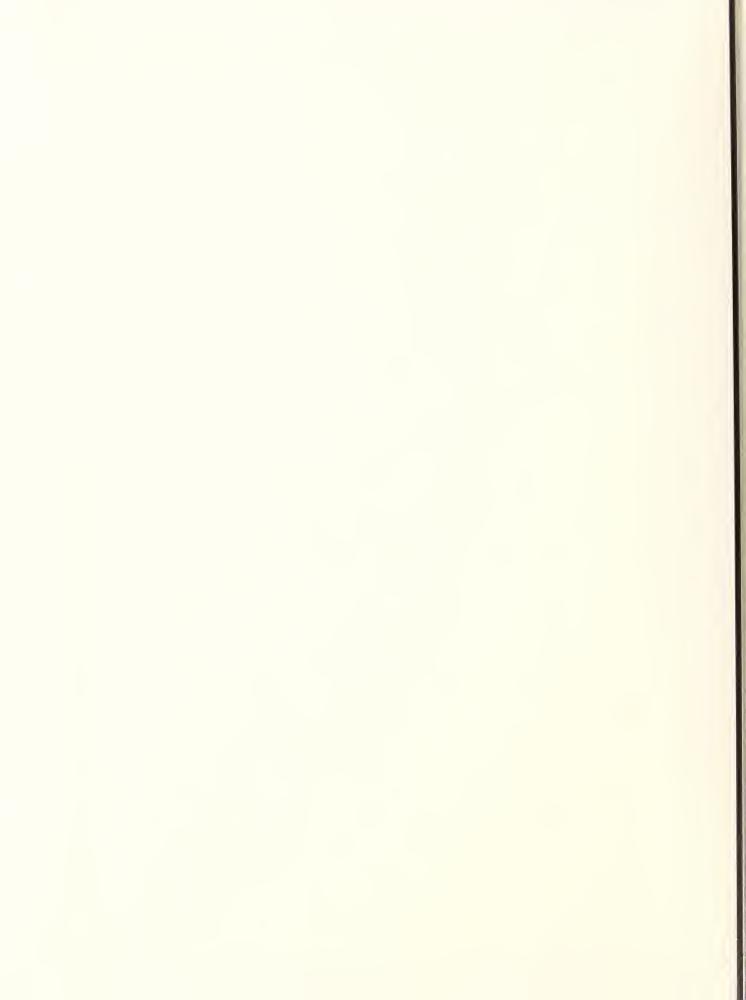
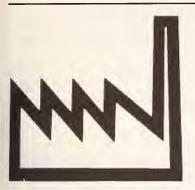
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PRELIMINARY REPORT INDUSTRY SERIES

1987

Census of Manufactures

MC87-I-24B(P) Issued July 1989

MILLWORK, PLYWOOD, AND STRUCTURAL WOOD MEMBERS, NOT ELSEWHERE CLASSIFIED

Industries 2431, 2434, 2435, 2436, and 2439

INTRODUCTION

This report presents preliminary statistics from the 1987 Census of Manufactures for those establishments classified in the industries listed above. These data will be superseded by a more comprehensive final paperbound report. The method of data collection and use of administrative data are discussed in detail in the appendix.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The definitions of these industries are the same as those used in the 1987 Standard Industrial Classification (SIC) Manual.¹

INDUSTRY 2431, MILLWORK

In the 1987 Census of Manufactures, Industry 2431, Millwork, had employment of 88.5 thousand. The employment figure was 56 percent above the 56.8 thousand reported in 1982.

The total value of shipments for establishments classified in this industry was \$9.2 billion.

In 1987, establishments in this industry accounted for 96 percent of products considered primary to the industry regardless of the industry in which they were produced

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

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(coverage ratio). In 1982, the coverage ratio was 94. The products primary to this industry appear in table 2 and aggregated to \$8.7 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$5.4 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2434, WOOD KITCHEN CABINETS

In the 1987 Census of Manufactures, Industry 2434, Wood Kitchen Cabinets, had employment of 67.3 thousand. The employment figure was 54 percent above the 43.6 thousand reported in 1982.

The total value of shipments for establishments classified in this industry was \$4.4 billion.

In 1987, establishments in this industry accounted for 98 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 97. The products primary to this industry appear in table 2 and aggregated to \$4.2 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$1.9 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2435, HARDWOOD VENEER AND PLYWOOD

In the 1987 Census of Manufactures, Industry 2435, Hardwood Veneer and Plywood, had employment of 20.6 thousand. The employment figure was 16 percent above the 17.8 thousand reported in 1982.

The total value of shipments for establishments classified in this industry was \$2.0 billion.

Address inquiries to Bureau of the Census, Industry Division, Washington, DC 20233, or call Bernice W. Patterson (301) 763-2510.



For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

In 1987, establishments in this industry accounted for 96 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 94. The products primary to this industry appear in table 2 and aggregated to \$1.8 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$1.3 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD

In the 1987 Census of Manufactures, Industry 2436, Softwood Veneer and Plywood, had employment of 38.2 thousand. The employment figure was 9 percent above the 34.9 thousand reported in 1982.

The total value of shipments for establishments classified in this industry was \$4.9 billion.

In 1987, establishments in this industry accounted for 95 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 94. The products primary to this industry appear in table 2 and aggregated to \$4.4 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$2.9 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2439, STRUCTURAL WOOD MEMPERS, N.E.C.

In the 1987 Census of Manufactures, Industry 2439, Structural Wood Members, N.E.C., had employment of 24.5 thousand. The employment figure was 100 percent above the 12.2 thousand reported in 1982.

The total value of shipments for establishments classified in this industry was \$1.9 billion.

In 1987, establishments in this industry accounted for 95 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was also 95. The products primary to this industry appear in table 2 and aggregated to \$1.9 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$1.2 billion in 1987. Data on specific materials consumed appear in table 3.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in the tables in this publication:

- (D)	Represents zero. Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half the unit shown.
do	Ditto.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

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Census/ASM Durables Nondurables	Kenneth Hansen Michael Zampogna	(301) 763-7304 (301) 763-2510
Current Indus- trial Reports Durables Nondurables	Malcolm Bernhardt Thomas Flood	(301) 763-2518 (301) 763-5911
Import/Export Publications	Foreign Trade Division	(301) 763-5140
Industry Analysis and Forecasts	International Trade Administration	(202) 377-4356

Table 1. Historical Statistics for the Industry: 1987 and Earlier Years

[Excludes data for	[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]														
		All establ	ishments ³	All em	ployees	Pro	duction wor	kers				Name	F-4-4	Rati	os
Year ¹	Com- panies ² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- cial- ization (per- cent)	Cover- age (per- cent)
							INDUS	TRY 2431,	MILLWORK			·		·	
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	(NA) (NA) (NA) (NA) (NA) (NA)	2 710 (NA) (NA) (NA) (NA)	848 (NA) (NA) (NA) (NA)	88.5 77.2 73.1 74.1 67.9	1 800.4 1 493.4 1 359.5 1 277.0 1 125.6	71.2 61.1 59.2 60.3 54.7	139.8 119.8 115.5 115.4 106.5	1 296.1 1 054.9 961.2 905.8 819.4	3 781.9 3 091.0 2 637.6 2 641.5 2 268.7	5 429.4 4 692.9 4 186.7 3 860.8 3 437.6	9 152.7 7 748.9 6 812.8 6 489.3 5 627.3	171.1 164.9 137.4 139.1 103.1	1 155.7 1 052.5 953.2 938.3 930.6	95 (NA) (NA) (NA) (NA)	96 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	2 192 (NA) (NA) (NA) (NA)	2 321 (NA) (NA) (NA) (NA)	642 (NA) (NA) (NA) (NA)	56.8 65.2 65.5 73.0 72.0	895.4 944.8 876.7 893.1 835.7	44.7 52.2 51.9 59.4 59.5	83.5 99.5 98.8 113.5 114.4	645.6 672.1 620.4 650.2 608.9	1 712.6 1 924.5 1 770.6 1 960.2 1 797.8	2 502.0 2 951.0 2 787.6 2 971.6 2 872.2	4 248.3 4 859.7 4 569.0 4 898.0 4 617.1	79.9 105.0 99.0 103.5 82.5	731.2 775.1 777.5 758.6 726.1	93 (NA) (NA) (NA) (NA)	94 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	2 209 (NA) (NA) (NA) (NA) (NA) 2 340	2 333 (NA) (NA) (NA) (NA) (NA) 2 434	692 (NA) (NA) (NA) (NA) 720	68.6 60.5 54.8 59.1 72.0 70.5	742.2 633.0 538.1 517.3 567.6 524.5	56.6 49.8 44.3 48.1 51.5 58.4	108.4 97.7 85.7 93.9 111.3 110.8	542.0 459.2 375.2 367.9 418.0 383.6	1 497.9 1 276.0 1 028.6 923.1 1 087.9 962.7	2 460.4 1 946.0 1 486.7 1 544.1 1 715.6 1 485.4	3 928.1 3 185.7 2 499.5 2 471.3 2 756.6 2 426.8	81.0 66.0 45.0 61.7 51.5 57.2	605.0 490.5 419.3 397.1 443.2 365.2	94 (NA) (NA) (NA) (NA) (NA)	94 (NA) (NA) (NA) (NA) 94
						INDU	STRY 243	4, WOOD	KITCHEN CA	BINETS				·	
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	(A) (A) (A) (A) (A) (A)	3 672 (NA) (NA) (NA) (NA)	663 (NA) (NA) (NA) (NA)	67.3 53.4 54.5 58.4 49.5	1 191.8 901.7 863.5 841.1 678.4	54.0 42.3 44.6 48.1 40.7	108.6 85.8 89.1 98.1 79.0	837.8 623.1 611.0 601.0 506.9	2 518.3 1 842.9 1 659.4 1 645.9 1 421.9	1 920.9 1 501.9 1 425.9 1 434.2 1 067.8	4 405.3 3 342.2 3 083.6 3 061.4 2 482.7	101.7 81.9 67.3 74.5 52.5	454.5 363.4 356.2 365.1 337.0	96 (NA) (NA) (NA) (NA)	98 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	2 902 (NA) (NA) (NA) (NA)	2 964 (NA) (NA) (NA) (NA)	489 (NA) (NA) (NA) (NA)	43.6 49.9 55.1 56.7 54.2	606.9 637.5 646.3 633.1 587.4	34.6 39.7 43.3 46.5 45.2	67.1 77.8 83.0 88.8 85.5	442.5 444.9 468.3 450.7 424.3	1 144.3 1 290.6 1 209.6 1 161.6 1 062.2	906.8 901.6 974.6 989.4 926.2	2 060.7 2 195.8 2 183.6 2 145.3 1 976.3	43.8 549.1 42.6 570.1 60.1	287.3 241.4 239.7 233.6 253.9	96 (NA) (NA) (NA) (NA)	97 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	2 541 (NA) (NA) (NA) (NA) 1 761	2 583 (NA) (NA) (NA) (NA) (NA) 1 796	510 (NA) (NA) (NA) (NA) 396	46.2 32.8 31.3 35.4 43.1 38.8	481.1 309.9 282.1 292.1 326.8 286.6	38.7 27.0 25.6 29.3 36.5 32.2	72.3 48.0 46.0 54.0 72.1 62.0	352.3 229.5 206.3 216.9 240.7 208.1	868.8 555.5 469.1 494.0 531.1 486.7	730.6 478.7 428.0 467.3 497.8 420.1	1 590.8 1 020.9 906.1 962.4 1 031.7 897.2	36.7 23.1 19.4 23.0 527.8 28.3	212.3 143.6 127.6 137.8 149.3 119.7	96 (NA) (NA) (NA) (NA)	96 (NA) (NA) (NA) (NA) 96
					11	IDUSTRY	2435, HA	RDWOOD	VENEER AN	D PLYWOO	D				
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	(NA) (NA) (NA) (NA) (NA)	313 (NA) (NA) (NA) (NA)	215 (NA) (NA) (NA) (NA)	20.6 17.0 17.3 18.3 19.3	341.0 268.7 273.8 272.8 271.2	17.5 14.3 14.8 15.6 16.5	35.4 29.7 29.2 31.2 32.7	247.6 197.4 194.8 198.5 202.7	730.8 632.0 552.0 571.0 553.8	1 327.2 946.9 939.3 1 010.7 978.6	2 044.0 1 585.2 1 510.0 1 578.8 1 537.1	31.6 538.0 534.9 40.3 17.3	288.3 211.3 213.7 223.1 223.0	92 (NA) (NA) (NA) (NA)	96 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	264 (NA) (NA) (NA) (NA)	306 (NA) (NA) (NA) (NA)	213 (NA) (NA) (NA) (NA)	17.8 22.7 23.6 24.2 22.7	241.0 279.2 265.4 258.9 228.5	15.1 19.6 20.4 21.2 19.7	28.5 37.5 38.3 41.5 38.4	177.0 216.4 205.0 202.6 176.0	441.3 526.1 466.3 475.9 452.4	844.9 1 016.5 1 014.1 1 091.3 933.4	1 304.4 1 534.7 1 493.5 1 554.3 1 381.2	22.2 33.4 41.9 32.5 27.6	194.0 235.3 231.8 239.2 198.9	93 (NA) (NA) (NA) (NA)	94 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	274 (NA) (NA) (NA) (NA) 326	321 (NA) (NA) (NA) (NA) 366	227 (NA) (NA) (NA) (NA) 254	22.3 21.9 20.6 25.4 25.0 25.1	211.5 180.4 159.3 183.3 165.9 165.2	19.1 19.1 17.8 22.1 21.9 22.1	37.9 37.4 34.3 43.6 44.4 46.1	162.0 137.7 118.3 141.0 129.8 129.1	420.4 328.9 268.2 297.7 341.8 340.8	860.4 642.3 569.9 664.7 602.9 582.4	1 272.3 970.1 847.1 956.0 945.4 911.8	29.6 17.9 21.4 23.3 14.6 32.1	197.7 147.3 132.1 160.7 159.1 142.0	91 (NA) (NA) (NA) (NA)	93 (NA) (NA) (NA) (NA) 92
					II	NDUSTRY	2436, SC	FTWOOD	VENEER AN	D PLYWOOI)			,	
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	(NA) (NA) (NA) (NA) (NA)	227 (NA) (NA) (NA) (NA)	187 (NA) (NA) (NA) (NA)	38.2 35.9 35.7 37.5 38.1	874.9 826.1 798.7 823.4 785.9	34.6 32.3 32.1 33.7 34.4	75.7 71.9 70.0 72.2 72.4	755.4 711.3 691.5 712.8 681.1	1 930.4 1 678.4 1 495.4 1 332.6 1 333.9	2 938.2 2 727.6 2 578.4 2 773.5 2 747.7	4 976.5 4 401.1 4 091.2 4 108.4 4 062.7	109.2 95.8 130.9 101.8 86.5	233.7 251.1 241.3 284.1 294.3	87 (NA) (NA) (NA) (NA)	95 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	135 (NA) (NA) (NA) (NA)	250 (NA) (NA) (NA) (NA)	199 (NA) (NA) (NA) (NA)	34.9 39.4 41.9 47.6 47.5	667.3 721.5 711.1 775.3 731.0	31.1 35.3 37.5 43.3 42.7	63.7 69.6 73.3 87.8 91.2	568.6 614.6 608.4 679.9 641.2	831.5 997.7 1 179.9 1 483.3 1 830.9	2 363.9 2 681.2 2 556.8 2 791.9 2 647.3	3 221.5 3 687.8 3 731.0 4 295.3 4 463.8	99.7 187.1 201.0 144.0 5192.8	263.3 321.7 321.1 301.6 281.4	84 (NA) (NA) (NA) (NA)	94 (NA) (NA) (NA) (NA)
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	129 (NA) (NA) (NA) (NA) 121	256 (NA) (NA) (NA) (NA) 232	224 (NA) (NA) (NA) (NA) 225	46.2 45.0 41.1 42.8 45.5 43.7	634.6 537.8 438.6 421.1 442.2 403.6	41.9 40.5 36.7 38.5 41.3 39.9	89.4 84.5 75.0 78.1 87.7 85.3	556.9 468.0 377.5 363.3 388.7 356.5	1 583.7 1 304.2 850.3 832.0 1 097.2 935.4	2 231.1 1 880.5 1 386.5 1 299.8 1 283.5 1 071.3	3 804.8 3 164.1 2 243.5 2 123.8 2 365.1 2 011.5	105.6 85.0 84.7 85.1 80.8 65.4	242.6 220.0 176.9 170.6 153.9 113.6	88 (NA) (NA) (NA) (NA) (NA)	91 (NA) (NA) (NA) (NA) 89
					IN	DUSTRY	2439, STI	RUCTURA	L WOOD MEI	MBERS, N.E.	c.				
1987 Census 1986 ASM 1985 ASM 1984 ASM 1983 ASM	(NA) (NA) (NA) (NA) (NA)	885 (NA) (NA) (NA) (NA)	396 (NA) (NA) (NA) (NA)	24.5 16.7 15.5 14.7 15.4	434.0 292.3 267.1 228.2 236.6	18.4 11.9 11.2 11.0 12.3	35.1 22.4 20.5 21.8 23.7	271.9 183.8 159.8 138.7 164.5	767.3 473.3 467.7 500.9 430.0	1 157.7 850.3 739.9 738.0 714.4	1 925.5 1 327.2 1 209.6 1 233.8 1 134.4	46.5 33.5 537.9 525.3 537.8	159.3 129.4 124.1 119.5 131.7	97 (NA) (NA) (NA) (NA)	95 (NA) (NA) (NA) (NA)
1982 Census 1981 ASM 1980 ASM 1979 ASM 1978 ASM	649 (NA) (NA) (NA) (NA)	704 (NA) (NA) (NA) (NA)	190 (NA) (NA) (NA) (NA)	12.2 13.2 15.9 18.1 16.4	185.5 184.4 200.6 210.3 188.3	9.3 10.0 12.2 14.1 13.2	17.8 19.1 22.3 26.8 24.3	126.0 113.6 127.0 137.5 127.9	330.5 363.8 398.0 452.0 436.0	516.8 502.7 564.6 676.8 638.6	847.9 873.8 970.9 1 132.1 1 076.1	16.1 ⁵ 23.7 25.5 ⁵ 34.1 ⁵ 40.7	99.3 84.0 96.9 102.7 108.9	96 (NA) (NA) (NA) (NA)	95 (NA) (NA) (NA) (NA)

Table 1. Historical Statistics for the Industry: 1987 and Earlier Years-Con.

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix]

		All establi	shments ³	All em	ployees	Pro	duction wor	kers						Rat	tios
Year ¹	Com- panies² (no.)	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufac- ture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Spe- cial- ization (per- cent)	Cover- age (per- cent)
	INDUSTRY 2439, STRUCTURAL					TURAL W	OOD MEMBI	ERS, N.E.C	-Con.						
1977 Census 1976 ASM 1975 ASM 1974 ASM 1973 ASM 1972 Census	620 (NA) (NA) (NA) (NA) 642	656 (NA) (NA) (NA) (NA) 678	225 (NA) (NA) (NA) (NA) 196	13.8 12.3 10.9 11.3 14.1 12.6	147.0 130.3 107.4 97.9 111.5 94.4	11.0 9.6 8.6 8.8 10.7 9.8	20.8 18.8 16.9 17.7 19.8 18.6	101.6 86.3 70.8 65.1 75.3 62.6	330.0 291.2 220.3 217.2 220.6 182.8	484.4 363.5 287.6 292.2 368.4 276.0	807.7 654.7 510.1 509.4 584.6 456.0	19.7 ⁵ 20.5 ⁵ 16.0 ⁵ 17.6 ⁵ 17.4 11.8	87.3 65.0 54.1 55.7 63.5 48.5	94 (NA) (NA) (NA) (NA) (NA)	93 (NA) (NA) (NA) (NA) (NA)

Note: Establishments of single unit companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. Data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were estimated based on administrative-record information from other agencies in conjunction with industry averages. These establishments accounted for the following percent of total value of shipments: SIC 2431, 18%; SIC 2434, 22%; SIC 2435, 16%; SIC 2436, 6%; and SIC 2439, 20%.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry chapter.

For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

3Includes establishments with payroll at any time during year.

4Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior Censuses and annual survey of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data.

Estimates for new capital expenditures have associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

Snipments	in appendix. For meaning of abbreviations and symbols, see introductory text						
			1987			1982	
1987		Number of	Product sh	ipments ¹	Number of	Product s	hipments ¹
product code	Product	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	companies with shipments of \$100,000 or more	Quantity ²	Value (million dollars)
2431	MILLWORK						
	Total	(NA)	(X)	8 736. 8	(NA)	(X)	3 9 88 .4
24311 —	Wood window units	(NA)	(X)	1 995.1	(NA)	(X)	692.1
24311 31 24311 32 24311 34	Cladded thousands Other do Awning do Casement: do	(NA) (NA) (NA)	*4 799.9 *2 524.3 (S)	529.9 224.1 27.0	32 58 18	(S) **622.2 **421.9	r 176.2 r 71.9 32.5
24311 35 24311 36 24311 41 24311 45 24311 00	Cladded thousands_ Other do_ Horizontal sliding do_ All other, including single hung do_ Wood window units, n.s.k.	(NA) (NA) (NA) (NA) (NA)	*5 854.1 *1 886.5 (S) (S) (X)	720.4 217.6 46.9 197.5 31.7	34 44 20 31 (NA)	r *188.3 r *1 067.1 **583.5 *590.5 (X)	r 214.3 r 91.5 42.2 45.9 17.6
24312 24312 09 24312 15 24312 00	Wood window sash, including combination screen and storm sash, and window screens, excluding window units (Note: double hung window to be counted as two sash)	(NA) (NA) (NA)	(X) (S) *2 590.5	184.6 68.3 92.6	(NA) 15 20	(X) (S) 1 322.3	60.6 18.9 29.8 11.9
24313 24313 13 24313 15 24313 00	Wood window and door frames, and door frames shipped in door units, excluding window frames shipped in window units	(NA) (NA) (NA) (NA)	3 046.5 (S) (X)	329.0 119.7 208.9 .4	(NA) 36 83 (NA)	(X) (S) **3 096.0 (X)	190.2 62.1 119.2 8.9
24314	Wood doors, interior and exterior (including those with glazed sections and doors shipped in door units)	(NA)	(X)	1 509.5	(NA)	(X)	775.5
24314 11 24314 13 24314 19	Panel type (including French doors): Douglas fir Western pines	(NA) (NA) (NA)	*2 355.4 *3 733.5 (S)	204.4 319.6 39.5	40 40 34	*1 815.1 **1 619.6 **401.4	106.9 73.0 40.8
24314 31 24314 33 24314 35 24314 37	Softwood faces	(NA) (NA) (NA) (NA)	(S) *15 074.2 (S) *6 004.5	49.8 265.5 97.8 103.7	15 88 45 15	*2 219.8 **10 806.7 (S) **1 707.8	32.4 144.9 59.4 29.2
24314 41 24314 45 24314 46 24314 48 24314 00	Hardwood faces, including lauan, birch, oak, etc.: Solid wood core	(NA) (NA) (NA) (NA) (NA)	(S) *3 541.1 *1 142.0 *638.7 (X)	80.7 183.7 38.0 33.7 93.1	49 62 20 17 (NA)	**1 139.3 *2 563.6 **735.3 *212.8 (X)	71.0 111.2 20.8 20.4 65.5

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

			1987			1982	
		Number of	Product ships	ments ¹	Number of	Product shipr	ments1
1987 product code	Product	companies with shipments of		Value	companies with shipments		Value
		\$100,000 or more	Quantity ²	(million dollars)	\$100,000 or more	Quantity ²	(millior dollars
2431	MILLWORK—Con.						
24315	Other wood doors, including garage, screen, storm, combination screen and storm, and louver	(NA)	(X)	943.2	(NA)	(X)	480.4
24315 61	Garage doors, wood1,000 openings_	(NA)	(S)	263.0	39	*1 355.7	147.0
24315 75 24315 81	Screen doors and combination screen and storm doors thousands Louver doors do	(NA) (NA)	(S) (S)	31.3 53.6	14 34	614.9 (S)	14.5 44.8
24315 84 24315 85	Bifold doors do	(NA) (NA)	(S) *831.6	127.0 253.5	49 27	(S) 295.9	61.9 89.2
24315 98	Other wood doors, including storm, cabinet, toilet, grain, etc.	(NA)	(X)	198.5	48	(X)	87.0
24315 00	Other wood doors, n.s.k.	(NA)	(X) (X)	16.4	(NA)	ίΧί	36.0
24316	Wood moldings except prefinished moldings made from purchased moldings	(NA)	(X)	1 077.7	(NA)	(X)	507.9
24316 21	Pine mil bd ft	(NA)	(S)	789.7	89	(S)	381.7
24316 31	Other softwood species mil bd ft lum	, ,					
24316 51	Hardwood, including lauan, and hardwood covered with	(NA)	(S)	88.1	29	(S)	28.2
24316 00	metal, plastics, etc do Wood moldings except prefinished moldings made from	(NA)	**125.6	141.2	66	**67.8	65.8
	purchased moldings, n.s.k.	(NA)	(X)	58.7	(NA)	(X)	32.2
24317	Prefinished wood moldings made from purchased moldings Softwood (including softwood covered with metal, plastics, etc.):	(NA)	(X)	127.6	(NA)	(X)	99.1 66.1
24317 21 24317 31	Pine mil lin ft Other softwood species do Hardwood, including lauan and hardwood covered with	(NA) (NA)	(S) (S)	84.6 5.8	14	(S) (S)	11.8
24317 71	metal, plastics, etc do_	(NA)	(S)	26.0	17	(S)	15.
24317 00	Prefinished wood moldings made from purchased moldings, n.s.k.	(NA)	(X)	11.2	(NA)	(X)	6.0
24318	Other millwork products, including stairwork and exterior millwork	(NA)	(X)	862.2	(NA)	(X)	405.4
24318 21	crooks, newels, rails, etc.): Softwood	(NA)	(X)	73.5	29	(X)	31.7
24318 25 24318 33	HardwoodExterior wood blinds and shutters, with or without their	(NA)	(X)	170.1	57	(X)	45.9
24318 35	hardware (excluding fibrous vegetable materials) Exterior millwork, including porch columns, porch rails,	(NA)	(×)	35.0	27	(X)	29.8
	newels, trellises, and entrances Nonstandard or specialty wood moldings, carvings, and ornaments suitable for architectural or furniture decorations:	(NA)	(X)	57.6	35	(X)	32.0
24318 73 24318 77	Softwood	(NA) (NA)	(X) (X)	20.5 [35.8]_	- 79	(X)	86.3
24318 98 24318 00	Other millwork products, n.e.c., including interior millworkOther millwork products, n.s.k.	(NA) (NA)	(X) (X)	427.5 42.3	168 (NA)	(X) (X)	159.6 19.5
24310	Millwork products, n.s.k.	(NA)	(X)	1 708.1	(NA)	(X)	777.2
24310 00	Millwork products, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	1 443.0	(NA)	(X)	602.
24310 02	Millwork products, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	265.1	(NA)	(X)	175.
2434	WOOD KITCHEN CABINETS						
	Total	(NA)	(X)	4 247.1	(NA)	(X)	2 001.
24341 24341 11	Wood kitchen cabinets and cabinetwork, stock line	(NA)	(X)	1 615.3	(NA)	(X)	708.0
24341 13 24341 00	Plastics laminated	(NA) (NA)	*19 814.8 (X)	1 278.1 264.1	164 55	*9 418.8 (S) (X)	547.2 95.3 65.5
24341 00	Wood kitchen cabinets and cabinetwork, stock line, h.s.k.	(NA) (NA)	(X) (X)	73.1	(NA) (NA)	(X)	496.4
24342 12	Wood1,000 cabinets_	(NA)	(S)	776.0	463	(S)	337.9
24342 14 24342 00	Plastics laminated	(NA) (NA)	(X) (X)	253.9 74.6	203 (NA)	(S) (X)	116.3 42.3
24343 24343 16	Vanities and other cabinetwork	(NA)	(X) 6 363.2	467.5 250.0	(NA) 80	(X)	244.3 109.3
24343 18	Stock line1,000 units	(NA) (NA)	(X)	177.3	221	(S) (S)	102.8
24343 00	Vanities and other cabinetwork, n.s.k.	(NA)	(X)	40.2	(NA)	(X)	32.2
24340 24340 00	Wood kitchen cabinets, n.s.k. Wood kitchen cabinets, n.s.k., typically for establishments	(NA)	(X)	1 059.9	(NA)	(X)	552.6
24340 02	with 5 employees or more (see note)Wood kitchen cabinets, n.s.k., typically for establishments	(NA)	(X)	795.4	(NA)	(X)	393.8

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

Shipments	in appendix. For meaning of abbreviations and symbols, see introductory text)					1			
			198	87			19	982	
1987		Number of		Product sl	hipments ¹	Number of		Product s	hipments ¹
product code	Product	companies with	Ougatity of			companies	Overatity of		
		shipments of	Ouantity of production		Value	shipments of	Quantity of production		Value
		\$100,000 or more	for all purposes	Quantity ²	(million dollars)	\$100,000 or more	for all purposes	Quantity ²	(million dollars)
2435	HARDWOOD VENEER AND PLYWOOD								
	Total	(NA)	(X)	(X)	1 840.3	(NA)	(X)	(X)	1 237.0
24351	Hardwood plywood: ³								
24351 00	Hardwood plywood (for additional detail, see Current Industrial Report MA-24F, Hardwood Plywood)mil sq ft sm	(NA)	(X)	(S)	758.1	96	(X)	996.3	530.6
24352	Prefinished hardwood piywood made from purchased plywood:								
24352 00	Prefinished hardwood plywood made from purchased plywood (for additional detail, see Current Industrial								
	Report MA-24F, Hardwood Plywood) mil sq ft sm	(NA)	(X)	(S)	317.6	15	(X)	1 181.5	225.8
24353 24353 11	Hardwood plywood type productsmil sq ft sm	(NA) (NA)	(X) (X) (X)	(X) 835.0	235.8 56.7	(NA)	(X)	(X)	159.7
24353 31 24353 98	Hardwood veneered panels do Other hardwood plywood type products, including cellular	(NA)		**71.3	26.5	(NA)	(X)	(S)	156.1
24353 00	panels and curved and molded plywood do_ Hardwood plywood type products, n.s.k	(NA) (NA)	(X)	**614.9 (X)	148.1 4.5	NA)	(X)	(X)	3.6
24354 24354 15	Hardwood veneer, not reinforced or backed	(NA) (NA)	(X) 466,9	(X) 456.1	421.4 30.5	(NA)	(X) 216.2	(X)	277.7 11.9
24354 15 24354 17 24354 19	Birch	(NA) (NA) (NA)	200.3 1 647.4	456.1 191.1 1 502.9	22.8 149.3	20 53	142.3 1 546.7	141.2 *128.7 1 369,1	11.9 9.4 104.7
24354 19 24354 21 24354 27	Oak do Walnut do Other domestic hardwoods do	(NA) (NA) (NA)	1 647.4 342.8 *1 802.4	1 502.9 342.1 *1 793.5	40.7 116.3	30	598.4	588.8	38.4
24354 27 24354 31 24354 00	Unter domestic hardwoods do_ Imported hardwoods do_ Hardwood veneer, not reinforced or backed, n.s.k.	(NA) (NA) (NA)	15.0	14.6	4.7	72 (NA)	1 308.5	*1 211.8	89.6 23.8
24354 00		. ,	(X)	(X)	57.2	(NA)	(X)	(X)	
24350 24350 00	Hardwood veneer and plywood, n.s.k. Hardwood veneer and plywood, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	(X)	107.4	(NA)	(X)	(X)	43.2
24350 02	establishments with 10 employees or more (see note) Hardwood veneer and plywood, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X) (X)	(X) (X)	64.2 43.2	(NA) (NA)	(X) (X)	(X) (X)	16.4 26.8
	establishments with less than to employees (see hote)	(IAA)	(^)	(^)	40.2	(140)	(^)	(~)	20.0
2436	SOFTWOOD VENEER AND PLYWOOD								
	Total	(NA)	(X)	(X)	4 385.1	(NA)	(X)	(X)	2 780.0
24363 24363 11	Softwood plywood type products mil sq ft sm	(NA) (NA)	(X) (X) (X)	(X) *285.0	132.7 43.1	(NA)	(X)	(X)	73.5
24363 31 24363 98	Other softwood plywood type products, including cellular	(NA)		*573.2	75.8	(NA)	(X)	(S)	68.3
24363 00	panels, and curved and molded plywood do	(NA) (NA)	(X) (X)	(S) (X)	12.1 1.7	(NA)	(X)	(X)	5.2
24364	Softwood veneer, not reinforced or backed:					,			
24364 00	Softwood veneer, not reinforced or backed mil sq tt (1 in. basis)	(NA)	(X)	*4 359.1	529.6	(NA)	(S)	(S)	315.8
24365	Softwood plywood, rough:								
24365 00	Softwood plywood, rough (including touch sanded) interior and exterior (for additional detail, see Current Industrial	1							
	Report MA-24H, Softwood Plywood)mil sq ft (3/8 in. basis)	(NA)	(X)	(S)	2 276.6	58	(X)	10 648.2	1 404.5
24366	Softwood plywood, sanded:								
24366 00	Softwood plywood, sanded, interior and exterior (for additional detail, see Current Industrial Report MA-24H,								
	Softwood Plywood)mil sq ft (3/8 in. basis)	(NA)	(X)	(S)	756.4	41	(X)	3 222.3	572.8
24367	Softwood plywood specialties:								
24367 00	Softwood plywood specialties (including sidings, overlays, interior and other specialties) (for additional detail, see								
	Current Industrial Report MA-24H, Softwood Plywood)mil sq ft (3/8 in. basis)_	(NA)	(X)	(S)	604.8	(NA)	(X)	(S)	381.6
24360	Softwood veneer and plywood, n.s.k. Softwood veneer and plywood, n.s.k., typically for	(NA)	(X)	(X)	85.0	(NA)	(X)	(X)	31.8
24360 00	establishments with 10 employees or more (see note)	(NA)	(X)	(X)	71.9	(NA)	(X)	(X)	19.1
24360 02	Softwood veneer and plywood, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)			13.1			(X)	12.7

Table 2. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1987 and 1982-Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

			1987		1982				
1987		Number of companies	Product s	hipments ¹	Number of companies	Product shipments ¹			
product code	Product	with shipments of \$100,000 or more	Quantity ²	Value (million dollars)	with shipments of \$100,000 or more	Quantity ²	Value (million dollars)		
2439	STRUCTURAL WOOD MEMBERS, N.E.C.								
	Total	(NA)	(X)	1 863.8	(NA)	(X)	800.2		
24390 —	Fabricated structural wood products: Members for heavy timber construction, including wood laminates, laminated trusses, and heavy timber decking:								
24390 31 24390 33 24390 35	Glued laminated lumber mil bd ft_ Sawn lumber Combination of glued, laminated, and sawn lumber	(NA) (NA) (NA)	*448.2 (X) (X)	257.1 86.3 45.9	30 12 8	*224.9 (S) (S)	138.5 25.8 23.7		
24390 51 24390 98 24390 00	Roof trusses made of sawn lumber, light construction, sold separately	(NA) (NA)	(X) (X)	893.8 195.5	316 43	(S) (X)	418.1 66.7		
24390 00	establishments with 5 employees or more (see note) Structural wood members, n.e.c., n.s.k., typically for	(NA)	(X)	315.1	(NA)	(X)	99.6		
	establishments with less than 5 employees (see note)	(NA)	(X)	70.1	(NA)	(X)	27.8		

Note: In 1987 Census of Manufactures, data for establishments of small single unit companies with up to 20 employees were estimated from administrative-record data rather than data actually collected from respondents. Employment cutoffs used for administrative records for each industry and shipments figures are included in code ending with "002". In both 1987 and 1982 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

Table 3. Materials Consumed by Kind: 1987 and 1982

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987		19	87	19	982
material code	Material		Delivered cost (million		Delivered cost (million
		Quantity ¹	dollars)	Quantity ¹	dollars)
	INDUSTRY 2431, MILLWORK				
	Materials, parts, and supplies	(X)	5 023.2	(X)	2 293.0
241112	Softwood logs, bolts, and unsliced flitches mil ft (log scale)	(S)	7.9	**40.9	12.4
242110 242121	Rough lumber: Hardwood mil bd ft Softwood do	(S) (S)	237.9 811.7	**217.7 589.9	106.9 292.1
242117 242128 243540	Dressed lumber: Hardwood	(X) (X) (S)	73.5 672.9 118.5	(X) (X) (S)	86.3 359.2 61.1
243511 243513	Hardwood plywood, other than container type: Veneer core	(X)	36.0	(X)	38.8
243601	coreSoftwood plywoodmil sq ft (3/8	(X)	23.6	(X)	15.5
249310	in. basis) Particleboard (wood) mil sq ft (3/4	(S)	28.1	(S)	6.9
249340	in. basis)_ Hardboard (wood fiberboard)mil sq ft (1/8	(S)	39.6	(S)	17.2
249330	in. basis)	**360.2 (X)	43.5 20.7	(S) (X)	44.6 8.5
308007	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	(×)	94.0	(X)	16.6
342940	Builders' hardware, including door locks, locksets, lock trim, miscellaneous sash, screen, and shelf hardware; hinges and butts; handers, tracks, and related items; cabinet				
265001	hardware and all other builders' hardware	(X)	264.5 4 0 .7	(X) (X)	114.8 12.7
970099	All other materials and components, parts, containers, and	, ,	1 147.7	` ′	477.1
971000	supplies Materials, parts, and supplies, n.s.k.2	(X) (X)	1 147.7	(X) (X)	622.3

¹Data reported by all producers, not just those with shipments of \$100,000 or more.
²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).
³Includes shipments of prefinished hardwood plywood made from plywood produced at same establishment.

Table 3. Materials Consumed by Kind: 1987 and 1982—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987		L		1987			1982	
material code	Material		C	Quantity ¹	Delivered cost (million dollars)	Q	Juantity ¹	Delivered co (millio dollar
	INDUSTRY 2434, WOOD KITCHEN CABINETS							
	Materials, parts, and supplies			(X)	1 779.2		(X)	843
242110 242121	Rough lumber: Hardwood Softwood			(S) (S)	60.5 3.2		(S) (S)	23 7
242117 242128	Dressed lumber: HardwoodSoftwood			(X) (X)	148.2 17.2		(X) (X)	56 19
243511 243513	Hardwood plywood other than container type: Veneer core			(X)	49.2		(X)	19
43601	coreSoftwood plywood			(X)	40.5		(X)	20
43540	Hardwood veneer	in. basis) _mil sq ft sm		(S) (S)	12.2 22.8		(S) (S)	19
49310	Particleboard (wood)	_ mil sq ft (3/4		(S)	106.4		(S)	4
49340	Hardboard (wood fiberboard)	in. basis) [(S) (X)	19.8		(S) (X)	1
49330	Medium density fiberboard (MDF)			(X)	20.0		(X)	1
308007 342940	Plastics products consumed in the form of sheets, rods, tubes and other shapes Builders' hardware, including door locks, locksets, lock trim; miscellaneous sash, screen, and shelf hardware; hinges			(X)	39.3		(X)	18
265001	and butts, hangers, tracks and related items; cabinet hardware, and all other builders' hardwarePaperboard boxes and containers			(X) (X)	120.9 44.7		(X)	4
970099	All other materials and components, parts, containers, and supplies.			, ,	309.3			13
971000	Materials parts, and supplies, n.s.k.2			(X) (X)	765.0		(X) (X)	39
				1987			1982	
1987 material code	erial Material		Consumption of materials received from other establishments		Materials made	Consumption of materials received from other establishments		Materials ma
			Quantity ¹	Delivered cost (million dollars)	and consumed	Quantity ¹	Delivered cost (million dollars)	and consum in same pl (quant
	INDUSTRY 2435, HARDWOOD VENEER AND PLYWOOD							
	Materials, parts, and supplies		(X)	1 166.2	(X)	(X)	778 .6	
81111	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment)		(X)	29.5	(X)	(X)	9.9	
41111	Logs, bolts, and unsliced flitches: Hardwood	mil ft (log	(0)			4075.0		
241112 242111	SoftwoodHardwood lumber, rough and dressed	scale) do mil bd ft	(S) 84.8 (S)	137.6 10.0 37.4	(X)	*375.9 96.9 80.6	78.2 20.1 10.9	
243540	Veneer: Hardwood	_ mil sq ft sm	*3 194.1	313.3	(NA)	*2 721.8	277.0	
243640	Softwood	mil sq ft (1 in. basis)	(S)	22.8	` /	129.9	27.5	
243510	Plywood: Hardwood	_ mil sq ft sm	*1 183.2	152.5	(X)	(S)	96.4	
243601	Softwood	in. basis)	(D)	(D)	(X)	(D)	(D)	
249310	Conventional	in hacie)	*967.3	68.3		(0)	40.4	
249323 249322	Waferboard (phenolic bonded)	dó	(Z)	(Z)	(^)	(S)	49.1	
49330 49340	Medium density fiberboard (MDF)Hardboard (wood fiberboard)	do	87.5	21.9	(X)	**57.1	16.3	
289101	Glues and adhesives (soybean, casein, blood, albumen,	in. basis)	(D)	(D)	(X)	37.0	8.9	
82104	synthetic resin adhesives, etc.) ————————————————————————————————————		(S)	23.9		(S)	22.4	
70099	All other materials and components, parts, containers, and		(D)	(D)		(D)	(D)	
71000	supplies Materials, parts, and supplies, n.s.k.2		(X)	175.1 158.3	(X) (X)	(X) (X)	80.5 71.0	
	INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD							
			(20)	2 687.5	(X)	(X)	2 180.4	
	Materials, parts, and supplies							
081111	Stumpage cost (cost of timber, excluding land, cut and consumed at same establishment)		(X)	14 1 .8	(×)	(X)	253.7	
081111 241111	Stumpage cost (cost of timber, excluding land, cut and		(X)	14 1 .8		(X) (S)	253.7	

Table 3. Materials Consumed by Kind: 1987 and 1982—Con.

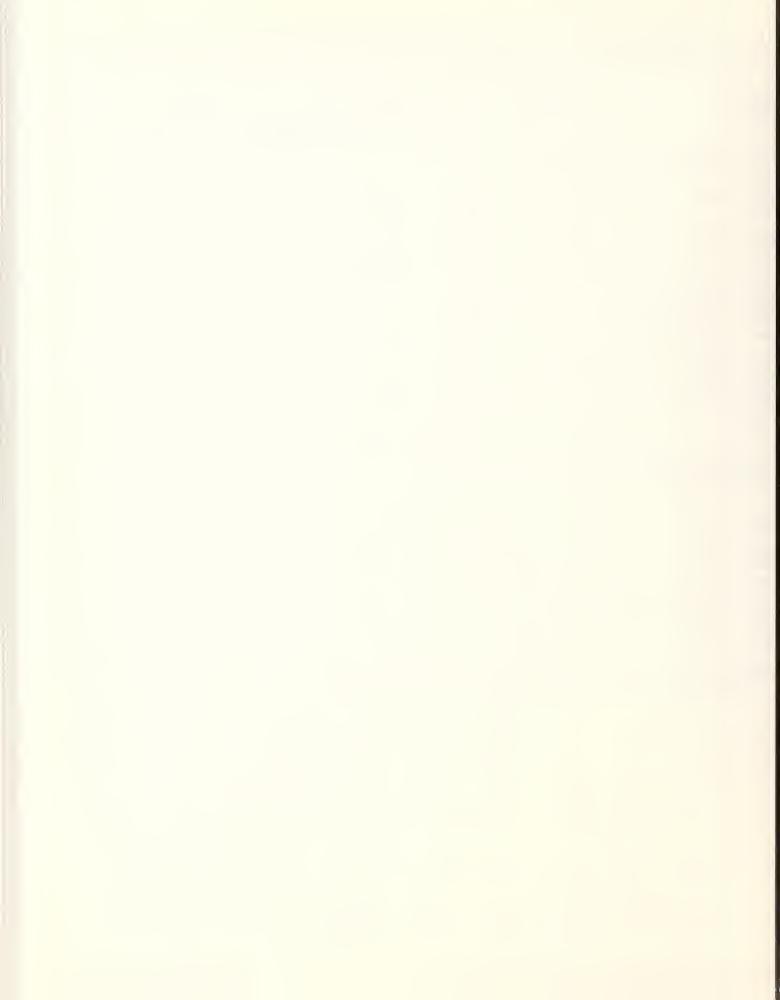
[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

			1987	7			1982	-	
1987 material code	Material	Consumption received to establis	of materia from other shments	ıls	Materials made	Consumption received frestablis	rom other		Materials made
		Quantity ¹	Delivere (million d		and consumed in same plant (quantity)	Quantity ¹	Delivered (million doll	cost ars)	and consumed in same plant (quantity)
	INDUSTRY 2436, SOFTWOOD VENEER AND PLYWOOD — Con.								
243540 243640	Veneer: Hardwood	78.1		12.0	(NA)	*82.1		8.9	(S)
	basis)	3 110.7		405.2	(NA)	(S)	24	11.4	1 536.9
243510 243601	Plywood:	(D)		(D)	(X)	(D)		(D)	(X)
	in. basis)	248.7		40.3	(X)	*366.1		50.4	(X)
249310	Particleboard: Conventional mil sq ft (3/4 in. basis)	(D)		(D)	(x)	(D)		(D)	(×)
249323 249322 249330	Waferboard (phenolic bonded) do	- (D)		- (D)) (×)	(D)		(D)	(X)
249340	Hardboard (wood fiberboard)mil sq ft (1/8 in. basis)	(D)		(D)	(X)	7.1		.9	(X)
280101 282104	Glues and adhesives (soybean, casein, blood, albumen, synthetic resin adhesives, etc.)mil lbPlastics resins consumed in the form of granules, pellets,	(S)		186.2	(X)	**1 008.0	1:	31.6	(X)
970099	powders, liquids, etc., excluding sheets, rods, tubes, and shapes do All other materials and components, parts, containers, and	(S)		9.4	(X)	**120.6		10.7	(X)
971000	supplies	(X) (X)		314.7 154.2	(X) (X)	(X) (X)		15.1 54.7	(X) (X)
1987			1987	7			1982		
material code	Material	C	Quantity ¹		Delivered cost (million dollars)	C	uantity1		Delivered cost (million dollars)
	INDUSTRY 2439, STRUCTURAL WOOD MEMBERS, N.E.C.								
	Materials, parts, and supplies		(X)		1 0 67.9		(X)		466.8
242110 242121	Rough lumber: Hardwood mil bd ft_ Softwood do_ do_		(S) *459.2		73.4 116.9		(S) 142.6		24.4 37.7
242117 242128	Dressed lumber: mil bd ft_ Softwood do_		(S) 1 057.8		24.4 309.2		(S) *541.4		36.9 136.4
243601 342940	Softwood plywoodmil sq ft (3/8 in. basis)_ Builders' hardware, including door locks, locksets, lock trim, miscellaneous sash, screen, and shelf hardware; hinges		*115.4		22.1		(S)		3.2
	and butts; hangers, tracks, and related items; cabinet hardware, and all other builders' hardware		(X)		10.2		(X)		(3)
344113 970099	Fabricated structural iron and steel (includes truss plates) and aluminum1,000 s tons_All other materials and components, parts, containers, and		(S)		33.2		(S)		15.4
971000	suppliesAll other materials, parts, and supplies, n.s.k.2		(X) (X)		83.1 395.4		(X) (X)	³ 56.7 156.1	

¹For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

²Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

³For 1982 material code 342940 was included with material code 970099.



APPENDIX Scope and Coverage and Explanation of Terms

GENERAL

The 1987 Census of Manufactures is the 32nd census of manufacturing establishments conducted in the United States. For 1987, it was conducted as part of the economic censuses, which included the censuses of mineral industries, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses, under authority of title 13 of the United States Code. Title 13 specifies that an economic census be conducted every 5 years to cover years ending in 2 and 7.

SCOPE AND COVERAGE

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. All manufacturing establishments with one paid employee or more at any time during the year are covered by the census of manufactures. Therefore, a company operating at more than one location is required to file a separate report for each location. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units which service manufacturing establishments of the same company. Where these auxiliary operations are conducted at the same location as the manufacturing operation, they are usually included in the report for the operating manufacturing establishment.

Use of Administrative Records

From a universe of approximately 350,000 manufacturing establishments in the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of the small establishment nonmail cases was done on an industryby-industry basis. A variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. The cutoffs were selected so the administrative-record cases would account for approximately 3 percent or less of the value of shipments for the industry. These cutoffs were then adjusted so that all single-establishment companies with less than 5 employees were excluded from the mail canvass, while all establishments with more than 20 employees were included. Where establishments in the 5 to 20 employee size range were included in the mail canvass, an abbreviated census form was frequently used.

For these nonmail establishments, (and a small number of larger establishment whose reports were not received at the time the data were tabulated) data on employment, payroll, and receipts were obtained from administrative records of other government agencies rather than from census forms. The administrative-record information was then used in conjunction with industry averages to estimate the data for these establishments. The value of shipments and cost of materials were not distributed among specific products and materials but were included in the product and material "not specified by kind" (n.s.k.) categories.

EXPLANATION OF TERMS

Number of establishments and companies-A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

All employees-includes all full-time and part-time employees on the payrolls at any time during the year. Included are all persons on paid sick leave, paid holidays, and paid vacations. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average of those for midmonth payroll periods of March, May, August, and November.

Production workers-includes workers up through the working-supervisor level engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., powerplant), recordkeeping, and other closely associated services. Truckdrivers delivering ready-mixed concrete are also included in production workers.

Other employees-Includes nonproduction personnel, including those engaged in the following activities: supervision above working-supervisor level, sales (including driver/salespersons), sales delivery (truckdrivers and helpers), advertising, credit collection, installation and servicing of own product, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, etc.), professional, and technical employees.

Payroll-Includes the gross earnings for the "employees" defined above, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Respondents were told that in reporting they could follow the definition of payrolls used for calculating the Federal withholding tax.

Production-worker hours-Covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the plant.

Cost of materials-Refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuels consumed, regardless of whether they were purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (a) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (b) electric energy purchased; (c) fuels consumed for heat, power, or generating electricity; (d) work done by others on materials or parts furnished by manufacturing establishments (contract work); and (e) products bought and resold in the same condition.

Specific materials consumed (table 3)-In addition to the total cost of materials which every establishment was required to report, information was also collected for most manufacturing industries on the consumption of major materials used in manufacturing. These inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Establishments consuming less than a specified amount (usually \$10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which administrative records were used was estimated as "not specified by kind" (n.s.k.).

Value of shipments and other receipts-Generally refers to received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all

miscellaneous receipts such as receipts for contract work performed for others, installation and repair receipts, sale of scrap, and sale of products bought and resold without further processing. Included are all items made by or for the establishment from materials owned by it whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In a few industries, the value of production or value of work completed is used instead of value of shipments. These industries are identified in the introduction and are footnoted in table 1.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, that is, including not only the direct costs of production but also a reasonable proportion of "all other costs" (including company overhead and profit).

Shipments or production of individual products (table 2)-In the 1987 census, detailed shipment information was collected for approximately 11,000 individual products. These products are identified by a seven-digit code and are grouped into approximately 1,500 classes of products, which in turn are primary to 459 four-digit industries. Data at the five-digit product-class level have been collected each year as part of the annual survey of manufactures. Information at the seven-digit level, collected for many industries in the current industrial reports program, is not included in this table.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments for products manufactured plus receipts for services rendered. The result of this calculation is then adjusted by the addition of value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacturing, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1), value added is adjusted only for the change in work-in-process inventories between the beginning and end of the year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

Value added avoids the duplication in the figure for value of shipments which results from the use of products of some establishments as materials by others. Value

added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Expenditures for new plant and equipment-Establishments in operation and any known plants under construction were asked to report their expenditures for (a) permanent additions and major alterations to manufacturing establishments and (b) new machinery and equipment used for replacement and additions to plant capacity if they are of the type for which depreciation accounts are ordinarily maintained.

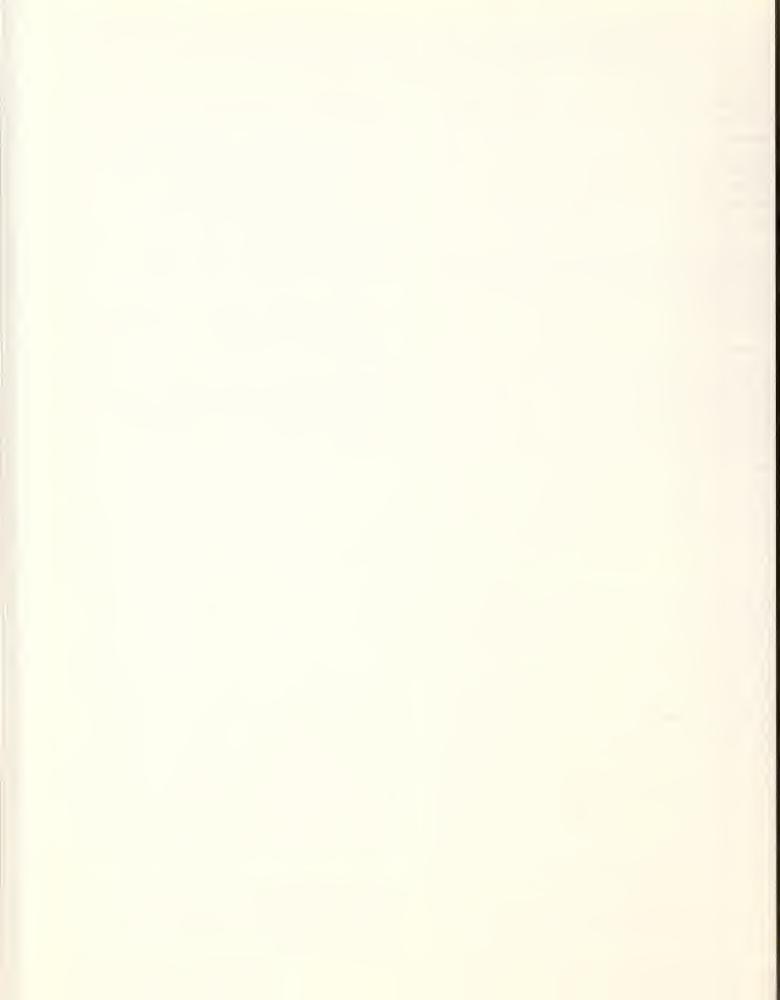
These totals exclude expenditures for used plant and equipment, expenditures for land, and cost of maintenance and repairs charged as current operating expenses. Data for used plant and equipment will be published in the final industry bulletin.

End-of-year inventories-Comprised of (a) finished products; (b) work-in-process; and (c) materials, supplies, fuels, etc. Beginning in 1982, respondents were asked to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Therefore, 1982 through 1987 data for inventories are not strictly comparable to prior-year data.

Specialization and coverage ratios-An establishment is classified in a particular industry if its shipments of primary products of the industry exceed in value its shipments of the products of any other single industry. An establishments' shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). The following ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in table 1 and data on product shipments shown in table 2.

Specialization ratio-Represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio-Represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments, wherever classified.

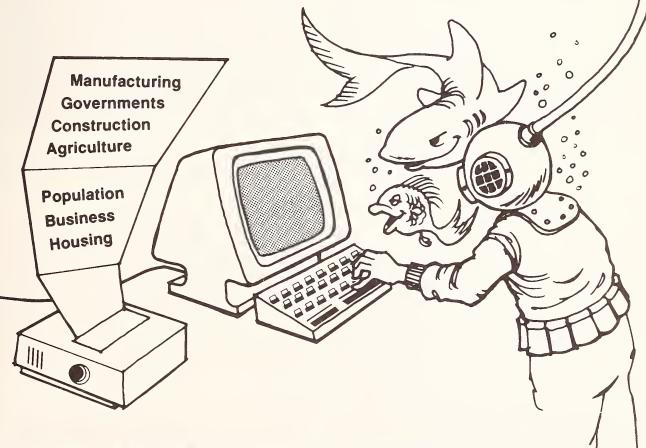


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